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NOTICE OF ALLOWANCE AND FEE(S) DUE

64280 7590 022222010 MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C.

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C ONE FINANCIAL CENTER BOSTON. MA 02111

EXAMINER					
KE, PENG					
ART UNIT	PAPER NUMBER				
2174					

DATE MAILED: 02/22/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,994	12/09/2003	Khatoun Shahrbabaki	34874-068	5871

TITLE OF INVENTION: METHOD OF GROUPING OBJECTS IN A GRAPHICAL USER INTERFACE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	05/24/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification a) specifying a new	corres	pondence address;	and/o	(b) indicating a sepa	rate "FEE A	ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 64280 7590 02/22/2010				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
64280 MINTZ, LEVI ONE FINANCI BOSTON, MA	IN, COHN, FERR AL CENTER	IS, GLOVSKY &	POPEO, P.C.	I her State addr trans	Cer by certify that the Postal Service vessed to the Mail mitted to the USP	tificate is Fec(vith sul I Stop TO (57	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address I) 273-2885, on the d	mission ; deposited v st class mail above, or b ate indicated	vith the United in an envelope eeing facsimile l below.
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APPLICATION NO.	FILING DATE		FIRST NAMED INVE	NTOR		ATTO	RNEY DOCKET NO.	CONFIRM	ATION NO.
10/731,994 TITLE OF INVENTION	12/09/2003 N: METHOD OF GROUI	PING OBJECTS IN A GF	Khatoun Shahrbab RAPHICAL USER IN		FACE		34874-068	58	871
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE:	DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DA	TE DUE
nonprovisional	NO	\$1510	\$0		\$0		\$1510	05/	24/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLAS	s					
KE, I	PENG	2174	715-817000	-817000					
Change of correst Address form PTO/S "Fee Address" inc PTO/SB/47; Rev 03-1 Number is required 3. ASSIGNEE NAME A	AND RESIDENCE DATA dess an assignee is ident th in 37 CFR 3.11. Com	inge of Correspondence	or agents OR, alte (2) the name of a registered attorne 2 registered paten listed, no name w THE PATENT (print	single y or a st attor ill be or typ the pa	e firm (having as a gent) and the nam neys or agents. If printed. e) atent. If an assign assignment.	membes of u no nan	er a 2p to p to se is 3	ocument has	been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	۵	Individual 🗖 Co	orporati	on or other private gro	oup entity	Government
Advance Order -	No small entity discount j	permitted)	A check is enclo	sed. lit car iereby	i. Form PTO-2038	is atta	required fee(s), any de	ficiency, or o	
	ntus (from status indicate ns SMALL ENTITY state		b. Applicant is n	o long	ger claiming SMA	LLEN	FITY status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee ar	nd Publication Fee (if req	uired) will not be accepte ites Patent and Trademark	d from anyone other	than t	ne applicant; a regi	stered	attorney or agent; or th	e assignee o	r other party in
Authorized Signature		THE THE THREE THRE			Date				
Typed or printed name					Registration N	lo			
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	nation is required by 37 C titality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC 313-1450.	CFR 1.311. The informatis U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection of depending upon the Chief Information COMPLETED FORM	in or r is est indiv Office AS TO	etain a benefit by t imated to take 12 idual case. Any co r, U.S. Patent and THIS ADDRESS	he pub minute mmen Trader S. SEN	tic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Dep D TO: Commissioner	I by the USP g gathering, ne you requi artment of Co for Patents, I	TO to process) preparing, and ire to complete ommerce, P.O. P.O. Box 1450,

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64280 75	90 02/22/2010	EXAMINER				
MINTZ, LEVIN,	COHN, FERRIS, G	KE, PENG				
ONE FINANCIAL		ART UNIT	PAPER NUMBER			
BOSTON, MA 021	111		2174			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 520 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 520 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/731 994 SHAHRBABAKI ET AL. Notice of Allowability Examiner Art Unit SIMON KE 2174 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 10/22/09. The allowed claim(s) is/are 1-19,24 and 25. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /Peng Ke/

Primary Examiner, Art Unit 2174

Art Unit: 2174

Allowable Subject Matter

Claims 1-19 and 24-25 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art either alone or in combination doesn't show or teach "defining a hierarchical arrangement for the plurality of object groups, the hierarchical arrangement comprising defined relationships between the first object group, the second object group, and the third object group and a plurality of levels to which the data objects in the set of data objects are assigned, the defined relationships comprising at least one of an overlapping relationship, a disjoint relationship, a one-to-one relationship, and an n-to-one relationship;

assigning graphic patterns to each of the defined relationships, the graphic patterns reflecting levels in the hierarchy;

generating a graphical structure for each data object in the set of data objects;

generating a plurality of background regions, each of the background regions having one of the graphic patterns to correspond to one of the levels of the hierarchy:

generating a graphical user interface that comprises the graphical structures and the background regions with the graphical structures arranged in the background regions to reflect the levels of the hierarchy to which the data objects belong and the object group of the plurality of object groups that comprises each data object* in combination with other features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SIMON KE whose telephone number is (571)272-4062. The examiner can normally be reached on M-Th and Alternate Fridays 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Chow can be reached on (571) 272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peng Ke /Peng Ke/ Primary Examiner, Art Unit 2174